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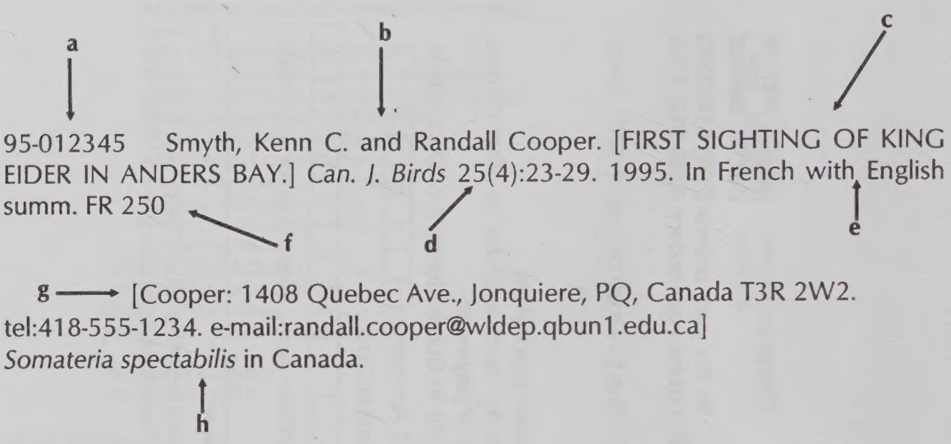

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[Cooper: 1408 Quebec Ave., Jonquiere, PQ, Canada T3R 2W2. tel:418-555-1234. e-mail:randall.cooper@wldep.qbun1.edu.ca]
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[Benfey: Dep. Biol., Univ. New Brunswick, Fredericton, NB, Canada E3B 6E1] *Salvelinus fontinalis.*

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[Cent. Aquat. Ecol., Nat. Hist. Surv., 607 E. Peabody Dr., Champaign, IL. tel:217-244-3946; e-mail:diehl@uxa.cso.uiuc.edu]

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[CSIRO Div. Fish., GPO Box 1538, Hobart, Tasm. 7001, Australia. tel:+61-02-325-374; e-mail:peter.grewe@ml.csiro.au] *Thunnus maccoyii.*

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[Lab. Biotechnol., Dep. Anim. Genet., Inst. Anim. Breeding & Reprod., Univ. Agric. Sci., Pater K. u. 1., H-2100 Godollo, Hungary. tel:(36-28)-310 200, ext.1659; fax:(36-28)-310 804; e-mail:orban@hubi.abc.hu] *Cyprinus carpio.*

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[Fish Cult. Res. Inst., P.O. Box 47, H-5541 Szarvas, Hungary]

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[Dep. Fish Cult. & Fish., Agric. Univ. Wageningen, P.O. Box 338, 6700 AH Wageningen, Netherlands]

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[Chan: Dep. Biochem., Chinese Univ., Shatin, N.T., Hong Kong. tel:852-609-6867; fax:852-603-5123] *Cyprinus carpio.*

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[Div. Biotech., Reprod. & Genet. Fish, Univ. Angers, CHRU, F-49033 Angers Cedex 01, France]

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[Arai: Grad. School Biosphere Sci., Hiroshima Univ., 4-4, 1-chome, Kagamiyama, Higashi-Hiroshima 724, Japan]

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[Univ. Ga., Savannah River Ecol. Lab., Drawer E, Aiken, SC 29802. e-mail:mulvey@srel.edu]

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[Dep. Fish. & Oceans, Sci. Branch, P.O. Box 5667, St. John's, NF, Canada A1C 5X1. tel:709-772-2065; e-mail:deblois@nflorc.nwafc.nf.ca] *Mallotus villosus*.

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[Coop. Fish. Res. Unit, Oreg. State Univ., Dep. Fish. & Wildl. 104 Nash Hall, Corvallis 97331. tel:503-737-4531; fax:503-737-3590; e-mail:sharpec@ucs.orst.edu] *Oncorhynchus tshawytscha* in Washington.

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[Ontario Minist. Nat. Resour., Res., Sci. & Technol. Branch, Aquat. Ecosyst. Res. Sect., Glenora Fish. Stn., RR 4, Picton, ON, Canada K0K 2T0. tel:613-476-2400] *Salvelinus namaycush*.

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[Dep. Nat. Resour., Inst. Fish. Res., 212 Mus. Annex Bldg., Ann Arbor, MI 48109. tel:313-663-3554] *Salmo trutta.*

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[Biol. Dep., Fish & Wildl. Program, Mont. State Univ., Bozeman 59715. tel:406-994-2492] *Oncorhynchus clarki lewisi* and *Salvelinus confluentus* in Idaho and Montana.

95-005400 John, H.-Ch. and P. Re. CROSS-SHELF ZONATION, VERTICAL DISTRIBUTION, AND DRIFT OF FISH LARVAE OFF NORTHERN PORTUGAL DURING WEAK UPWELLING. *Dynamics of Upwelling in the ICES Area. Selected Papers Presented at Theme Session O at the ICES Statutory Meeting, 23 September-1 October 1993. E. Hagen and A. Jorge da Silva, editors. Int. Counc. Explor. Sea Coop. Res. Rep.* No. 206. p. 71. 1995. Abstract only. FR 40(3)

[Taxonomische Arbeitsgruppe Biol. Anstalt Helgoland c/o Zool. Inst. & Mus., Martin-Luther-King-Platz 3, 20146 Hamburg, Germany] *Engraulis encrasicolus.*

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[Cent. Mar. Sci. Res., 7205 Wrightsville Ave., Wilmington, NC 28403] *Acipenser brevirostrum* and *A. oxyrhynchus.*

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[Dep. Nat. Resour., Bellevue Res. Stn., 24143 Hwy. 52, Bellevue, IA 52031. tel:319-872-4976] *Micropterus salmoides* in Iowa.

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[Range & Wildl. Dep., Tex. Tech. Univ., Lubbock 79409. tel:806-742-1983] *Pylodictis olivaris*.

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95-005423 Bailey, Kevin M.; Michael F. Canino; Jeffrey M. Napp; Stella M. Spring and Annette L. Brown. CONTRASTING YEARS OF PREY LEVELS, FEEDING CONDITIONS AND MORTALITY OF LARVAL WALLEYE POLLOCK *THERAGRA CHALCOGRAMMA* IN THE WESTERN GULF OF ALASKA. *Mar. Ecol. Prog. Ser.* 119(1-3):11-23. 1995. FR 40(3)
[Alaska Fish. Sci. Cent., NOAA, 7600 Sand Point Way NE, Seattle, WA 98115]

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[Coop. Fish & Wildl. Res. Unit, Dep. Fish. & Wildl., Utah State Univ., Logan 84322-5210] *Catostomus macrocheilus, Oncorhynchus nerka,* and *O. mykiss* in Washington.

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[Coop. Fish & Wildl. Res. Unit, Dep. Wildl. & Fish. Sci , S.D. State Univ., Brookings 57006] *Osmerus mordax* and *Stizostedion vitreum.*

95-005431 Burke, Nancy C. NOCTURNAL FORAGING HABITATS OF FRENCH AND BLUESTRIPED GRUNTS, *HAEMULON FLAVOLINEATUM* AND *H. SCIURUS*, AT TOBACCO CAYE, BELIZE. *Environ. Biol. Fishes* 42(4):365-374. 1995. FR 40(3)
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[Pac. Wildl. Res. Cent., Canadian Wildl. Serv., Environ. Canada, 5421 Robertson Rd., R.R. 1, Delta, BC, Canada V4K 3N2] *Pholis ornata, P. laeta, Leptocottus armatus, Cymatogaster aggregata, Gasterosteus aculeatus*, and *Syngnathus leptorhynchus.*

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[Borkner: Dep. Fish. & Mar. Biol., Univ. Bergen, Bergen High Technol. Cent., 5020 Bergan, Norway] *Hippoglossus hippoglossus* and *Mallotus villosus.*

95-005438 Dodrill, Jon; Charles S. Manooch III and Ann Bowman Manooch. FOOD AND FEEDING BEHAVIOR OF ADULT SNOWY GROUPER, *EPINEPHELUS NIVEATUS* (VALENCIENNES) (PISCES: SERRANIDAE), COLLECTED OFF THE CENTRAL NORTH CAROLINA COAST WITH ECOLOGICAL NOTES ON MAJOR FOOD GROUPS. *Brimleyana (J. N.C. State Mus. Nat. Sci.)* No. 19. p. 101-135. 1993. FR 40(3)

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[Inst. Pesca, Secretaria Agric. Abastecimento Estado Sao Paulo, Av. Francisco Matarazzo, 455, CEP: 05031-900, Sao Paulo, Brazil] *Moenkhausia intermedia, Astyanax fasciatus, A. bimaculatus, A. schubarti*, and *Cheirodon stenodon.*

95-005441 Felix, Adolfo; Margaret E. Stevens and Robert Lee Wallace. UNPALATABILITY OF A COLONIAL ROTIFER, *SINANTHERINA SOCIALIS*, TO SMALL ZOOPLANKTIVOROUS FISHES. *Invertebr. Biol.* 114(2):139-144. 1995. FR 40(3)

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[School Biol. & Earth Sci., Liverpool John Moores Univ., Byrom St., Liverpool L3 3AF, England] *Salmo salar.*

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[Dep. Fish & Wildl., For. & Range Sci. Lab., 1401 Gekeler Ln., La Grande, OR 97850] *Catostomus commersoni* and *Cyprinus carpio.*

95-005444 Findholt, Scott L. and Stanley H. Anderson. DIET AND PREY USE PATTERNS OF THE AMERICAN WHITE PELICAN (*PELECANUS ERYTHRORHYNCHOS*) NESTING AT PATHFINDER RESERVOIR, WYOMING. *Colon. Waterbirds* 18(1):58-68. 1995. FR 40(3)

[Dep. Fish & Wildl., For. & Range Sci. Lab., 1401 Gekeler Ln., La Grande, OR 97850] *Cyprinus carpio, Pimephales promelas, Catostomus commersoni, C. catostomus*, and *Etheostoma exile.*

95-005445 Forney, J. L. ECOLOGICAL RELATIONSHIPS IN FISHES OF ONEIDA LAKE, NY. *Program and Abstracts, The New York Natural History Conference, June 20-22, 1990. Daniel P. Molloy, compiler. N.Y. State Mus. Circ.* 54:29. 1990. FR 40(3)

Stizostedion vitreum and *Perca flavescens.*

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95-005486 Rudstam, Lars G.; Gunnar Aneer and Mikael Hilden. TOP-DOWN CONTROL IN THE PELAGIC BALTIC ECOSYSTEM. *Special Issue on Fish and Fisheries in the Baltic. Jan E. Beyer, Villy Christensen, Michael Elliott, Erik Hoffmann, C. C. E. Hopkins, Thomas Kiorboe, William T. Peterson, and Dietrich Schnack, editors. Dana* Vol. 10. p. 105-129. 1994. FR 40(3)

[Dep. Nat. Resour., Cornell Univ. Biol. Field Stn., 900 Shackelton Point Rd., Bridgeport, NY 13030] *Gadus morhua, Sprattus sprattus*, and *Clupea harengus*.

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[Dep. Nat. Resour., Inst. Fish. Res., 212 Museums Annex Bldg., Ann Arbor, MI 48109-1084. tel:313-663-3554] *Lepomis macrochirus, Stizostedion vitreum*, and *Perca flavescens* in Michigan.

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[Magnan: Dep. Chimie-Biol., Univ. Quebec Trois-Rivieres, C.P. 500, Trois-Rivieres, PQ, Canada G9A 5H7] *Salvelinus fontinalis* and *Catostomus commersoni* in Canada.

95-005499 Ward, David L.; James H. Petersen and John J. Loch. INDEX OF PREDATION ON JUVENILE SALMONIDS BY NORTHERN SQUAWFISH IN THE LOWER AND MIDDLE COLUMBIA RIVER AND IN THE LOWER SNAKE RIVER. *Trans. Am. Fish. Soc.*124(3):321-334. 1995. FR 40(3)
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95-005500 Watt, Jon; Bernhard Krausse and Tim M. Tinker. BALD EAGLES KLEPTOPARASITIZING SEA OTTERS AT AMCHITKA ISLAND, ALASKA. *Condor* 97(2):588-590. 1995. FR 40(3)
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AGE AND GROWTH

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[Danish Inst. Fish. & Mar. Res., Charlottenlund Castle, DK-2920 Charlottenlund, Denmark] *Clupea harengus* and *Gadus morhua* in the Baltic Sea.

95-005505 Bishop, C. A. and J. W. Baird. SPATIAL AND TEMPORAL VARIABILITY IN CONDITION FACTORS OF DIVISIONS 2J AND 3KL COD (*GADUS MORHUA*). *Collection of Papers Related to Northern Cod and Seals in NAFO Divisions 2J and 3KL: Papers Presented to the Scientific Council - 1993. T. Amaratunga, editor. Northwest Atl. Fish. Organ. Sci. Counc. Stud.* No. 21. p. 105-113. 1994. FR 40(3)
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95-005596 Provenzano R., Francisco. [*LEPORACANTHICUS GALAXIAS* ISBRUKER Y NIJSSEN (1989) (PISCES: SILURIFORMES: LORICARIIDAE), A NEW REPORT OF A LORICARID CATFISH FROM VENEZUELA.] *Acta. Biol. Venez.* 15(3-4):97-98. 1995. In Spanish. FR 40(3)

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[Dep. Paleontol., Hessisches Landesmus., Friedensplatz 1, D-64283 Darmstadt, Germany]

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[Natl. Mus. Nat. Hist., Smithsonian Inst. (MRC-106), Washington, DC 20560] *Heteroconger longissimus.*

95-005613 Warnes, S. and B. W. Jones. SPECIES DISTRIBUTIONS FROM ENGLISH CELTIC SEA GROUNDFISH SURVEYS, 1984 TO 1991. *Fish. Res. Tech. Rep. Minist. Agric. Fish. Food (Lowestoft)* No. 98. 42p. 1995. FR 40(3)
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95-005614 Wilson, D. S. SINGLE POPULATIONS AS ECOLOGICALLY DIFFERENTIATED UNITS: EXAMPLES FROM SUNFISH. *Program and Abstracts, The New York Natural History Conference II, April 29-May 1, 1992. Gordon C. Tucker, editor. N.Y. State Mus. Circ.* 54:75. 1992. FR 40(3)
Lepomis gibbosus and *Lepomis macrochirus.*

95-005615 Winston, Matthew R. CO-OCCURRENCE OF MORPHOLOGICALLY SIMILAR SPECIES OF STREAM FISHES. *Am. Nat.* 145(4):527-545. 1995. FR 40(3)
[Dep. Fish. & Wildl. Sci., VPI&SU, Blacksburg, VA 24061-0321. e-mail:mwinston@vtvm1.cc.vt.edu] Data for 27 species in Texas, Oklahoma, and Arkansas.

95-005616 Zazanci, Nilgun and Volker Salewski. A RECORD OF LAMPREYS (PETROMYZONTIDAE) FROM THE BLACK SEA REGION IN TURKEY. *Zool. Middle East* Vol. 11. p. 79-80. 1995. In English with German summ. FR 40(3)
[Hacettepe Univ., Biol. Dep., Hydrobiol. Sect., 06532 Beytepe, Ankara, Turkey]

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[SUNY, Binghamton, NY 13902-6000] *Lepomis gibbosus* and *L. macrochirus* in New York.

95-005618 Argent, David G. and Patricia A. Flebbe. THE EFFECTS OF FINE SEDIMENTS ON THE SURVIVAL AND EMERGENCE OF BROOK CHAR EGGS IN ARTIFICIAL SYSTEMS. *Am. Fish. Soc. Annu. Meet. Abstr.* No. 124. p. 92-93. 1994. FR 40(3)
[Dep. Fish. & Wildl. Sci., Va. Tech., Blacksburg 24061-0321. tel:703-231-4458] *Salvelinus fontinalis* in the United States.

95-005619 Auster, Peter J.; Richard J. Malatesta and Carol Lee S. Donaldson. SMALL-SCALE HABITAT VARIABILITY AND THE DISTRIBUTION OF POST-LARVAL SILVER HAKE, *MERLUCCIUS BILINEARIS*. *Am. Fish. Soc. Annu. Meet. Abstr.* No. 124. p. 25-26. 1994. FR 40(3)
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95-005620 Bozek, Michael A. THE EFFECT OF FINE SEDIMENT ON SURVIVAL AND EMERGENCE OF LAKE TROUT (*SALVELINUS NAMAYCUSH*). *Am. Fish. Soc. Annu. Meet. Abstr.* No. 124. p. 93. 1994. FR 40(3)
[Cent. North. For. Ecosyst. Res., Lakehead Univ., 955 Oliver Rd., Thunder Bay, ON, Canada P7B 5E1. tel:807-343-4009]

95-005621 Castonguay, Martin and Peter V. Hodson. IS THERE A ROLE OF OCEAN ENVIRONMENT IN EEL DECLINE? *Am. Fish. Soc. Annu. Meet. Abstr.* No. 124. p. 49-50. 1994. FR 40(3)
[Dep. Fish. & Oceans, Maurice-Lamontagne Inst., P.O. Box 1000, Mont-Joli, PQ, Canada G5H 3Z4. tel:418-775-0634] *Anguilla anguilla* and *A. rostrata* in the northwestern Atlantic Ocean.

95-005622 Cunjak, Richard A. WINTER MOVEMENT AND SURVIVAL OF SALMONID FISHES IN EASTERN CANADIAN STREAMS. *Am. Fish. Soc. Annu. Meet. Abstr.* No. 124. p. 139. 1994. FR 40(3)
[Sci. Branch, Dep. Fish. & Oceans, P.O. Box 5030, Moncton, NB, Canada E1C 9B6. tel:506-851-2002] *Salmo salar, S. trutta,* and *Salvelinus fontinalis.*

95-005623 Evans, D. O. and B. J. Shuter. WINTER SURVIVAL AND ZOOGEOGRAPHIC BOUNDARIES FOR TEMPERATE FISH SPECIES. *Am. Fish. Soc. Annu. Meet. Abstr.* No. 124. p. 142. 1994. FR 40(3)
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[Idaho State Univ., Dep. Biol. Sci., Pocatello 83209. tel:208-236-2116] *Oncorhynchus mykiss, O. clarki, Salmo trutta*, and *Salvelinus fontinalis.*

95-005625 Gu, Hong and Steve Miranda. TEMPORAL HATCHING DISTRIBUTION OF GIZZARD SHAD AND ITS EFFECT ON GROWTH AND MORTALITY. *Am. Fish. Soc. Annu. Meet. Abstr.* No. 124. p. 95. 1994. FR 40(3)

[Coop. Fish & Wildl. Res. Unit, Miss. State Univ., Mississippi State 39762. tel:601-325-2463; e-mail:hg2@ra.msstate.edu] *Dorosoma cepedianum* in Mississippi.

95-005626 Gunn, John M. and Ed J. Snucins. BEHAVIOURAL THERMOREGULATION BY LAKE TROUT IN WARM SHALLOW LAKES. *Am. Fish. Soc. Annu. Meet. Abstr.* No. 124. p. 36-37. 1994. FR 40(3)

[Ontario Minist. Nat. Resour., Aquat. Ecosyst. Res. Sect., Dep. Biol., Laurentian Univ., Sudbury, ON, Canada P3E 2C6. tel:705-688-1139; e-mail:tmayer@nickel.laurentian.ca] *Salvelinus namaycush.*

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[Ocean Sci. Cent., Memorial Univ. Newfoundland, St. John's, NF, Canada A1B 3X7. tel:709-737-8841] *Eleginus gracilis.*

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Esox masquinongy.

FISH CONTROL AND REMOVAL

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[S.O. Conte Anadromous Fish Res. Cent., U.S. Natl. Biol. Surv., P.O. Box 796, Turners Falls, MA 01376. tel:413-863-8994; e-mail:fws/s=r8#u#nfrc.afb.adm/o=fws@mhs.attmail.com] *Alosa sapidissima*.

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[Sci. Branch, Dep. Fish. & Oceans, NW Atl. Fish. Cent., P.O. Box 5667, St. John's, NF, Canada A1C 5X1. tel:709-772-2817; fax:709-772-4188; e-mail:taggart@mrspock.nwafc.nf.ca] *Gadus morhua* in Canada.

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[Dep. Wildl. & Fish. Biol., Univ. Calif., Davis 95616] Data for 23 species.

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[Dep. Wildl. & Fish. Biol., Univ. Calif., Davis 95616] *Hypomesus transpacificus.*

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Oncorhynchus clarki henshawi and *Chasmistes cujus* in Nevada.

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[U.S. Fish & Wildl. Serv., Tempe, AZ] *Gila elegans.*

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[BioSyst. Analysis, Inc., 303 Potrero St., Santa Cruz, CA 95060-2719] Selected chapters indexed in this issue of *Fisheries Review.*

95-007070 Wada, Lorena L. L.; O. Eugene Maughan and Stuart C. Leon. HABITAT USE BY APACHE TROUT *(ONCORHYNCHUS APACHE)* ON THE FORT APACHE INDIAN RESERVATION, ARIZONA. *Wild Trout V: Wild Trout in the 21st Century, a Symposium Held at Yellowstone National Park, September 26-27, 1994. Roger Barnhart, Bill Shake, and R. H. Hamre, editors.* p. 191-195. 1994. FR 40(3)
[U.S. Fish & Wildl. Serv., Ecol. Serv. State Off., 2321 W. Palm Rd., Suite 103, Phoenix, AZ 85021]

BOOK REVIEW

Sexual Selection, by Malte Andersson. 1994. Princeton University Press, 41 William Street, Princeton, NJ 08540. xx + 599p. Available from the publisher (tel:800-777-4726) at $65.00 (cloth: ISBN 0-69103-344-7) and $24.95 (paper: ISBN 0-69100-057-3).

Sexual Selection is an outstanding synthesis of the ideas and literature on one of the most exciting topics in evolutionary biology. This is no small feat given the explosion of research on sexual selection and related topics in recent years. The amount of literature on this topic is reflected in the reference section of the book, which is over one hundred pages in length. This book is an obvious starting place for students of sexual selection, as well as for researchers and professors who wish to find a synthesis of the topics, citations, or ideas for lectures and laboratories.

The book consists of 18 chapters, a references section, and author, subject, and taxonomic indices. The author index enhances the usefulness of the book as a citation guide and research summary by taking the reader to the page in the text where the research is discussed (many such indices simply direct the reader to a general chapter or section). The taxonomic index includes both common and scientific names, a useful feature in any volume covering such a diversity of taxa.

The first chapter introduces concepts used throughout the book, and summarizes the controversies that have surrounded the study of sexual selection since Darwin developed the theory. The most confusing discussion found in the book is contained in this chapter. It concerns the predictions of two proposed mechanisms for female preferences for male traits: the Fisher process and indicator mechanisms. Although the topics are treated in chapters 2 and 3, the distinction between the two mechanisms remains unclear. This problem is not the fault of the author, but rather reflects the lack of adequate research testing.

Other chapter topics include: empirical methods, case studies, patterns of studies of sexually selected traits, sexual selection in relation to mating system and parental roles, benefits of mate choice, species recognition, sexual selection and speciation, constraints, sexual size dimorphism, weapons, signals, alternative mating tactics, sexual selection in plants, conclusions, and questions remaining.

Of special note is a lengthy table in chapter 6 listing 186 species in which sexual selection has been studied quantitatively in relation to some character. This nice summary is organized taxonomically, as are many of the chapter topics, where appropriate. Fishes rank below insects, birds, and anurans in terms of number of studies summarized. In proportion to the number of species in these groups, fishes are decidedly underrepresented as subjects for such studies. Many features of fishes that are undoubtedly related to sexual selection are not mentioned in the book (such as the large breeding tubercles of some fishes) due to the lack of published experimental studies on these topics.

Perhaps the best function of the book for fisheries biologists will be to stimulate experimental research dealing with sexual selection in fishes. I recommend Andersson's book for anyone interested in expanding their knowledge of this topic and obtaining ideas for future research.—*Carol E. Johnston, U.S.D.A. Forest Service, Southern Research Station, P.O. Box 947, Oxford, Mississippi 38655.*

BOOK REVIEW

Hydrology and Water Supply for Pond Aquaculture, by Kyung H. Yoo and Claude E. Boyd. 1994. Chapman & Hall, 115 Fifth Avenue, New York, NY 10003. xxiii + 483p. Available from the publisher (tel:800-634-7064; fax:800-248-4724; e-mail:order@chaphall.com) at $82.50 (cloth).

Less than 3% of the volume of water on earth is freshwater and about 77% of this is in the form of ice. Aquaculture in freshwater systems places greater demands on natural supplies than most terrestrial crops per area of production. Efficient use of water with contemporary production systems will become ever more critical as the demand expands for this finite resource by aquaculture and other consumptive users.

The authors of this book comprehensively and clearly review water resource management within the context of aquaculture. The book is divided into two broad sections: I. Hydrology, Morphometry and Soils, and II. Design of Water Supply and Pond Systems. The chapters in Part I focus on the water supply, its availability and distribution for aquaculture, and various losses from this functional compartment. These factors are discussed from the perspective of optimally utilizing the supply through informed planning and development, and minimizing the losses. Part II is more directed to the engineering aspects of distributing water through flow design, pumps, etc.

Each chapter has a succinct introduction which places the contents in perspective. Depending on the topic, many chapters provide details of the process, various methods for measurement, and the requisite mathematical relationships. Formulae abound, but each is used in example calculations and the data are taken from actual situations. The book is well illustrated throughout with clear figures and informative tables.

In the Introduction, the authors explain the rationale for using non-metric measurements; U.S. Customary Units are used almost exclusively. Symbols used in each chapter are summarized at the beginning of the book and an abbreviated table of conversion factors precedes the text; a more comprehensive set of conversion tables is in an Appendix.

I feel that a different logic might have been applied to chapter chronology organization. Some redundancy seems to have resulted from the two-section format. For example, Pond Design is discussed in Chapter 7 and Chapter 13; Water Supply from ground water (Chapter 12) is separated from Water Supply from runoff (Chapter 4). I think that Chapters 12, 13 and 14 (Pond Effluent) would have been more effective if they had been associated with Chapters 2, 3 and 4 (Rainfall, Evaporation, and Runoff, respectively).

Organizational structure criticism aside, I think this book is a valuable contribution to the field of aquaculture. It provides greater breadth than other books on aquaculture engineering or hydrology, and it considers the all-important water quality factors that are germane to efficient fish production. *Hydrology and Water Supply for Pond Aquaculture* emphasizes the importance of good planning and design to cost-effective and efficient operating systems.—*William L. Shelton, Zoology Department, University of Oklahoma, Norman, Oklahoma 73019 (tel:405-325-1058).*

Symposia Proceedings Indexed in this Issue

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Bachmann, Roger W.; John R. Jones; Robert H. Peters and David M. Soballe, editors. PROGRAM ISSUE: PROGRAM AND ABSTRACTS, 14th ANNUAL INTERNATIONAL SYMPOSIUM, NORTH AMERICAN LAKE MANAGEMENT SOCIETY, ORLANDO, FLORIDA, OCTOBER 31-NOVEMBER 5, 1994. *Lake Reservoir Manage.* 9(2):131p. 1994. Available at $5.00 (paper) from N. Am. Lake Manage. Soc., One Progress Blvd., Box 27, Alachua, FL 36615-9536. tel:904-462-2554. FR 40(3)
[Univ. Fla., Gainesville 32601] Selected abstracts indexed in this issue of *Fisheries Review*.

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Berrebi, Patrick and Pascal Poncin, organizers. TABLE RONDE INTERNATIONALE BARBUS II. PAPERS FROM THE COLLOQUIUM, LIEGE, BELGIUM, 6-8 JULY 1993. *Bull. Fr. Peche Piscic.* No. 334. p. 167-225. 1994. Available at $15.00 (paper) from Conseil Superieur Peche, 134, ave. de Malakoff, 75116 Paris, France. tel:(33) 1/45.02.20.20; fax:(33) 1/45.01.27.23. Papers in English or in French with English abstracts. FR 40(3)
[Lab. Genome & Popul., Univ. Montpellier II, CC 063, Pl. Eugene Bataillon, 34095 Montpellier Cedex 05, France] Individual papers indexed in this issue of *Fisheries Review*.

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Bromage, Niall R. and Ronald J. Roberts, editors. BROODSTOCK MANAGEMENT AND EGG AND LARVAL QUALITY. BASED ON THE SECOND "SCIENCE IN AQUACULTURE" INTERNATIONAL CONFERENCE, UNIVERSITY OF STIRLING, SCOTLAND, JUNE 1992. *Blackwell Sci. Ltd. (Oxford)* 424p. 1995. Available at $100.00 (cloth) from Blackwell Sci. Publ., 238 Main St., Cambridge, MA 02142. tel:800-759-6102. FR 40(3)
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[Waddell Maricult. Cent., Dep. Nat. Resour., P.O. Box 809, Bluffton, SC 29910]

Carter, Dean; Jacobo Finkleman; Octavio Rivero Serrano; William A. Suk; Roger Bales; Jay Gandolfi; Herbert Ortega; Ian Pepper and Robert Varady, organizers. FATE, TRANSPORT, AND INTERACTIONS OF METALS: A JOINT UNITED STATES-MEXICO CONFERENCE, APRIL 13-16, 1993, TUSCON, ARIZONA. *Environ. Health Perspect. Suppl.* 103(1):1-113. 1995. FR 40(3)
[Coll. Pharm., Univ. Ariz., Tucson 85721. tel:602-626-3977; fax:602-626-2466; e-mail:carter@toxic.pharm.arizona.edu] Selected paper indexed in the issue of *Fisheries Review*.

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[Salmonid Enhancement Program, Dep. Fish. & Oceans, 555 W. Hastings St., Vancouver, BC, Canada V6B 5G3. tel:604-666-3520; fax:604-666-3450] Individual papers and abstracts indexed in this issue of *Fisheries Review*.

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Selected abstracts indexed in this issue of *Fisheries Review.*

Molloy, Daniel P., compiler. PROGRAM AND ABSTRACTS, THE NEW YORK NATURAL HISTORY CONFERENCE, JUNE 20-22, 1990. *N.Y. State Mus. Circ.* 54:58p. 1990. FR 40(3)

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- Minnesota: Gould Creek
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- Minnesota: Lake Vermilion
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- Minnesota: Pool 9
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- Mississippi: Sardis Lake
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- Missouri: Pomme de Terre Lake
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New York: Hudson River
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New York: Long Island
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BOOK REVIEW

The Rockpool Fishes of New Zealand Te Ika Aaria o Aotearoa, by Chris Paulin and Clive Roberts. 1992. Museum of New Zealand *Te Papa Tongarewa*, P.O. Box 467, Wellington, New Zealand. xii + 177p., 32 color pl. Available from the publisher at $45.00 (cloth).

There is a small, but extremely enthusiastic family of scientists around the world who specifically study tidepool fishes. There is a much larger number who are interested in inshore marine fishes. Both groups will be especially pleased with *The Rockpool Fishes of New Zealand.*

The book is divided into several sections. Following brief notes on nomenclature, preservation, and hints on photographing live specimens, and an easily followed and well-illustrated key, the authors present a short review of historical and scientific accounts of rockpool (tidepool) fish investigations in New Zealand. The first such collections apparently occurred during Captain Cook's first voyage. This is followed by sections on general aspects of life history, specific adaptations to tidepool life, and zoogeographical considerations. The latter seems out of place at first glance, but a careful reading indicates the value of such inclusion because of distinct climatic zonation along New Zealand coastlines.

The bulk of the text deals with descriptions and illustrations of intertidal fishes, divided into rockpool species and surge zone species (visitors to the intertidal zone). The terminology is significant to tidepool biologists, as members of the former group are encountered in trapped tidepools while those in the latter group visit the intertidal zone to forage and occasionally remain in the rockpools. This is where the book excels as a reference. Each fish description is accompanied by at least one large, detailed line drawing, and often by an excellent color photograph as well. Notes are provided on distribution (with a map), anatomical and color description, and life history, when known.

Tidepool and inshore fish specialists unfamiliar with specific New Zealand forms will still recognize most of the families and functional designs. Thus, the species accounts are quite valuable for those seeking examples of morphological, physiological, or behavioral adaptations similar to local species that occur elsewhere in the world.

Curious seaside naturalists will also value the book because an effective glossary, reference list, and indexes are provided. The extensive listing of references provides evidence of the authors' knowledge of New Zealand literature on tidepool fishes as well as the inclusion of many important studies from North America. The coffee-table size format is moderately priced, particularly in light of the extensive use of illustrations, including dozens in color. The book is well bound with quality paper and photo reproduction.

I noticed only one very minor error in the text and nothing that detracts from this outstanding book. My one regret would be my reluctance to take the book along on a field collecting trip (a photocopy of the key might suffice). It is simply too beautiful a book to risk despoiling by the elements, but one that the worldwide family of tidepool fish biologists should not be without.—*John R. Moring, National Biological Service, Maine Cooperative Fish and Wildlife Research Unit, University of Maine, 5751 Murray Hall, Orono, Maine 04469-5751 (tel:207-581-2582; fax:207-581-2537; e-mail:jmoring@maine.maine.edu*).

BOOK REVIEW

Keys to the Cestode Parasites of Vertebrates, edited by L.F. Khalil, A. Jones, and R. A. Bray. 1994. CAB International, Wallingford, Oxon OX10 8DE, England. xiii + 751p. Available also c/o University of Arizona Press, 1230 N. Park Avenue--Suite 102, Tucson, AZ 85719, at $153.00 (cloth).

Tapeworms are a ubiquitous and often frustratingly difficult group of fish parasites to identify, thus a book title promising to identify these worms is of more than routine interest. This volume is an outstanding contribution to the classification of tapeworms from the order to the genus ranks. The writing, organization and illustrations are excellent. The list of contributors is distinguished and international. The volume is physically well bound and has extremely few typographic errors. This book will be the standard for tapeworm classification.

The title could be "Keys and Diagnoses to the Orders through Genera of Cestodes (Platyhelminthes: Cestoda: Cestodaria and Eucestoda)." Chapter 1 provides a key to the orders; chapters 2-14 provide keys from the order to generic ranks of the less diverse cestode orders; 15 provides a key to the families of the order Cyclophyllidea; and 16-30 include keys to cyclophyllidean genera. The last chapter is entitled "Lists of Genera," but appears to be the opposite, or "Lists of Genera Not Included [in the book]." The keys, unfortunately, are highly technical; sometimes include jargon, imprecise and undefined terms and characters; and often employ single-character choices. Adult tapeworm characters are emphasized with brief mention of larval forms, life cycles, host groups and geographic distributions. The Glossary is incomplete in omitting many technical terms and in cryptic definitions and is definitely not designed for the non-specialist. The "Index" is restricted to the taxa presented in the keys, although this limitation is not explained. Publication of a complete index would increase the usefulness of this book. The "Bibliography" is actually a "Literature Cited", not a bibliography of the tapeworm literature. The authority of this work is diminished by chapter authors employing variants of names for equivalent higher categories (Cestoidea, Cestoda), and by the omission of class and subclass diagnoses and keys.

Keys to the Cestode Parasites of Vertebrates is a classic, highly specialized work essential for tapeworm taxonomists, not fish or wildlife biologists. The focus on higher tapeworm classification, with little help or guidance for the non-cestode specialist, limited species and biological information about tapeworms, and little mention of fishes, severely restricts the use of, or interest in, this book by fish biologists. Schmidt's *CRC Handbook of Tapeworm Identification* (CRC Press, Inc., 1986) is a more useful reference for fish biology. The Hoffman's forthcoming revision of his *Parasites of North American Freshwater Fishes* (Cornell University Press, in press) will detail North American freshwater fish tapeworms.—*Ernest H. Williams, Jr., and Lucy Bunkley-Williams, Marine Ecological Disturbance Information Center, Department of Marine Sciences, University of Puerto Rico, P.O. Box 908, Lajas, Puerto Rico 00667-0908 (tel:809-899-2048, ext 211; fax:809-899-5500; e-mail:e_williams@rumac.upr.clu.edu.*

Books Received

A Complete Guide to the Freshwater Fishes of Southern Africa, by Paul H. Skelton. 1993. xiii + 388p. Southern Book Publ., Halfway House, South Africa. Available at $40.00 (cloth), $30.00 (paper), and $150.00 (collector's edition) from ICHTHOS (J.L.B. Smith Inst. Ichthyol.), Private Bag 1015, Grahamstown 6140, South Africa

A Field Guide to Reptiles and the Law, by John P. Levell. 1995. 240p. Available at $29.95 (paper: ISBN 1-885209-03-7) from Serpent's Tale, 464 Second St., Excelsior, MN 55331 (tel:612-470-5008)

A Guide to Museum Pest Control, edited by Lynda A. Zycherman and John Richard Schrock. 1988. xi + 205p. Available at $36.00 (paper) from Assoc. Syst. Collections, 730 11th St., N.W., Washington, DC 20001-4521 (tel:202-347-2850)

Amphibians and Reptiles in West Virginia, by N. Bayard Green and Thomas K. Pauley. 1987. xi + 241p., 27 color pl. Available at $29.95 (cloth) and $17.95 (paper) from Univ. Pittsburgh Press, Univ. Pittsburgh, Pittsburgh, PA 15260

Aquaculture Development in Southeast Asia and Japan and Prospects for Seafarming and Searanching, edited by F. Lacanilao, R. M. Coloso, and G. F. Quinitio. 1994. Available at $17.50 (paper) from SEAFDEC Aquacult. Dep., P.O. Box 256, Iloilo City 5000, Philippines

Australian Snakes: A Natural History, by Richard Shine. 1995. 223p. Available at $27.50 (paper) from Cornell Univ. Press, 512 E. State St., Ithaca, NY 14851-0250 (tel:800-666-2211)

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Biogeography of the Tropical Pacific: Proceedings of a Symposium, edited by Frank J. Radovsky, Peter H. Raven, and S. H. Sohmer. 1984. Bishop Mus. Spec. Publ. 72. Available at $15.00 (paper) from Assoc. Syst. Collections, 730 11th St., N.W., Washington, DC 20001-4521 (tel:202-347-2850)

Biological Diversity: The Coexistence of Species on Changing Landscapes, by Michael A. Huston. 1994. xix + 681p. Available at $100.00 (cloth) and $34.95 (paper) from Cambridge Univ. Press, 40 W. 20th St., New York, NY 10011 (tel:800-872-7423)

Biology of Fishes, Second Edition, by Q. Bone, N. B. Marshall, and J. H. S. Blaxter. 1995. xi + 332p. Available at $79.95 (cloth: ISBN 0-7514-0243-5) and $34.50 (paper: ISBN 0-7514-0022-X) from Chapman & Hall, 115 Fifth Ave., New York, NY 10011 (tel:800-842-3636)

Biomedical and Surgical Aspects of Captive Reptile Husbandry, Second Edition, by Fredric L. Frye. 1991. Vols. I and II, xv + 656p. Available at $289.50 (cloth) from Krieger Publ. Co., P.O. Box 9542, Melbourne, FL 32902-9542 (tel:407-724-9542)

Bird Song: Biological Themes and Variations, by C. K. Catchpole and P. J. B. Slater. 1995. viii + 248p. Available at $32.95 (cloth: ISBN 0-521-41799-6) from Cambridge Univ. Press, 40 W. 20th St., New York, NY 10011 (tel:800-872-7423)

Birds in Brazil: A Natural History, by Helmut Sick. 1993. xvii + 708p., 47 color plates. Available at $125.00 (cloth) from Princeton Univ. Press, 41 William St., Princeton, NJ 08540 (tel:800-777-4726)

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